

Title (en)

PROCESS FOR THE PREPARATION OF POLY(PHENYLENE ETHERS) AND THEIR USE FOR THE PRODUCTION OF MOULDED ARTICLES

Publication

**EP 0162244 B1 19870624 (DE)**

Application

**EP 85103941 A 19850401**

Priority

DE 3414239 A 19840414

Abstract (en)

[origin: EP0162244A1] 1. A process for the preparation of a high molecular weight polyphenylene ether from a monohydric phenol which is alkyl-substituted at the two ortho-positions but not at the para-position, and may or may not be alkyl-substituted at a meta-position, by an oxidative coupling reaction with oxygen at from 10 to 50 degrees C in the presence of a catalyst complex consisting of a copper salt and an organic amine and in the presence of from 1 to 20 parts by weight of an aromatic C6 -C10 -hydrocarbon, as solvent, per part by weight of the monomeric phenol, and in the presence or absence of an activator, and working up of the resulting polymer solution, wherein the amine component used in the catalyst complex is an amine of the general formula (I) see diagramm : EP0162244,P5,F3 where R\*\*1 is C2 -C20 -alkylene or alkenylene, R\*\*2 is H or C1 -C12 -alkyl or C5 -C8 -cycloalkyl, each of which is optionally substituted by functional groups, and R\*\*3 is C2 -C20 -alkylene.

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